

Procedure

Optimizing parameter

Seed germination

7 days

Move seedlings
to light conditions

3 days

Cut epicotyl about node 2.
Place plant in Fibragro® cubes
imbibed with *A. rhizogenes*

1 day

Promote wilting of plants

1 day

Allow plants to recover wilting

1 day

Place plants in growth-room
in high humidity conditions

7 days

Expose callus
Remove all emerged roots

10 days

Plant epicotyl with callus
in vermiculite
Inoculate with rhizobial culture

21 days

Assess nodulation on roots

Etiolation conditions promote
development of longer internodes.

Prepare cube ahead of time.
Drill a starter hole to prevent
damage of the epicotyl.

Place plants in tray covered by a dome.
Adjust ventilation holes accordingly.

High humidity increases transgenic yield.

Removal of adventitious roots
promotes further root growth.